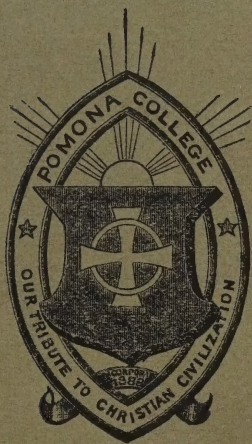


# Pomona College Bulletin

UNIVERSITY OF ILLINOIS  
OF THE  
THE LIBRARY

ANNOUNCEMENT OF COURSES 1909-1910



Vol. VI

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# Pomona College

## ANNOUNCEMENT OF COURSES

1909-1910

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# CALENDAR

## 1909

MAY							JUNE							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1			1	2	3	4	5				1	2	3	4
2	3	4	5	6	7	8	6	7	8	9	10	11	12	5	6	7	8	9	10	11
9	10	11	12	13	14	15	13	14	15	16	17	18	19	12	13	14	15	16	17	18
16	17	18	19	20	21	22	20	21	22	23	24	25	26	19	20	21	22	23	24	25
23	24	25	26	27	28	29	27	28	29	30				26	27	28	29	30		
30	31																			
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1 2			1	2	3	4	5 6				1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
31																				

## 1910

JANUARY							FEBRUARY							MARCH								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1				1	2	3	4	5				1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12		6	7	8	9	10	11	12	
9	10	11	12	13	14	15	13	14	15	16	17	18	19		13	14	15	16	17	18	19	
16	17	18	19	20	21	22	20	21	22	23	24	25	26		20	21	22	23	24	25	26	
23	24	25	26	27	28	29	27	28							27	28	29	30	31			
30	31																					
APRIL							MAY							JUNE								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1 2			1	2	3	4	5	6	7				1	2	3	4
3	4	5	6	7	8	9	8	9	10	11	12	13	14		5	6	7	8	9	10	11	
10	11	12	13	14	15	16	15	16	17	18	19	20	21		12	13	14	15	16	17	18	
17	18	19	20	21	22	23	22	23	24	25	26	27	28		19	20	21	22	23	24	25	
24	25	26	27	28	29	30	29	30	31						26	27	28	29	30			

# COLLEGE CALENDAR

1909

<i>September 20 Monday</i>	} Registration Days. Monday primarily for resident students.
<i>September 21 Tuesday</i>	
<i>September 22 Wednesday</i>	
<i>September 21 Tuesday</i>	Examinations for Entrance.
<i>September 22 Wednesday</i>	Academic year begins, 10:30 a. m.
<i>November 25 Thursday</i>	Thanksgiving Day.
<i>December 13 Monday</i>	Kinney Preparatory Contest in Declamation, 8 p. m.
<i>December 17 Friday</i>	Christmas Recess begins, 4:15 p. m.

1910

<i>January 4 Tuesday</i>	Christmas Recess ends, 7:30 a. m.
<i>January 27 Thursday</i>	Day of Prayer for Colleges.
<i>January 31 Monday</i>	Kinney Freshman Contest in Declamation, 8 p. m.
<i>February 10 Thursday</i>	} Mid-year Examinations.
<i>February 11 Friday</i>	
<i>February 12 Saturday</i>	
<i>February 15 Tuesday</i>	Registration Day for Second Semester.
<i>February 16 Wednesday</i>	Second Semester begins, 7:30 a. m.
<i>February 22 Tuesday</i>	Washington's Birthday.
<i>March 25 Friday</i>	Easter Recess begins, 4:15 p. m.
<i>April 5 Tuesday</i>	Easter Recess ends, 7:30 a. m.
<i>May 30 Monday</i>	Memorial Day.
<i>June 16 Thursday</i>	} Final Examinations.
<i>June 17 Friday</i>	
<i>June 18 Saturday</i>	
<i>June 17 Friday</i>	Closing Exercises of the Preparatory School, 8 p. m.
<i>June 18 Saturday</i>	Anniversary of the School of Music, 8 p. m.
<i>June 19 Sunday</i>	Baccalaureate Sermon, 10 a. m.
	Annual Address before the Christian Associations of the College, 7:30 p. m.



*June 20 Monday*

Condit Prize Contests in Extemporaneous  
Address and Sight-Singing, 10 a. m.

Dole Prize Debate, 3 p. m.

Choral Union Concert, 8 p. m.

*June 21 Tuesday*

Class Day.

Annual Meeting of Board of Trustees.

President's Reception, 4 to 6 p. m.

*June 21 Tuesday*

} Annual Exhibit of the School of Art  
and Design.

*June 22 Wednesday*

*June 22 Wednesday*

Commencement Exercises, 10 a. m.

Informal Addresses, 2 p. m.

Annual Meeting of Alumni, 3:30 p. m.

Alumni Banquet, 6:30 p. m.



## FACULTY

### COLLEGE

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#### *President*

EDWIN CLARENCE NORTON, PH.D.,  
*Professor of Greek, Dean*

FRANK PARKHURST BRACKETT, M.A.,  
*Professor of Mathematics, Director of the Observatory*

PHEBE ESTELLE SPALDING, PH.D.,  
*Professor of English Literature*

DANIEL HERBERT COLCORD, M.A.,  
*Professor of Latin*

ARTHUR DART BISSELL,<sup>1</sup> M.A.,  
*Professor of Modern Languages*

GEORGE GALE HITCHCOCK, B.A.,  
*Professor of Physics*

ALBERT JOHN COOK, D.Sc.,  
*Professor of Biology*

GEORGE STEDMAN SUMNER, PH.D.,  
*Professor of Economics and Sociology*

MARY ELIZABETH ALLEN, B.A.,  
*Assistant Professor of Latin and Greek*

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<sup>1</sup>Absent on leave 1909-1910.

ALICE MARIA PARKER, M.A.,  
*Instructor in English*

MILTON ERASTUS CHURCHILL, LITT.D.,  
*Associate Professor of Greek and Latin*

OLIVE LILLIAN AUSTIN,<sup>1</sup> B.L.,  
*Instructor in Mathematics*

MENDAL GARBUTT FRAMPTON, M.A.,  
*Associate Professor of English and Rhetoric*

WILLIAM POLK RUSSELL, B.A.,  
*Assistant Professor of Mathematics*

FRANCIS HARDING WHITE, M.A.,  
*Assistant Professor of History*

CHARLES CUMMINGS STEARNS, M.A.,  
*Professor of Biblical History and Literature and Principal  
of the Preparatory School*

MARY LOUISE ATSATT, B.A.,  
*Instructor in English*

ROBERT TRESILIAN BELCHER, B.A.,  
*Instructor in Mathematics and Engineering*

AMES HAVEN CORLEY, B.A.,  
*Associate Professor of French and German*

CHARLES FULLER BAKER, M.A.,  
*Professor of Zoology*

JOHN WILLIAM HOTSON, M.A.,  
*Assistant Professor of Botany*

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<sup>1</sup>Absent on leave 1909-1910.

ARTHUR W. PHELPS, M.A.,  
*Instructor in German*

JAMES A. LYMAN, PH.D.,  
*Acting Professor of Chemistry*

GRACE E. BERRY, M.A.,  
*Dean of Women*

EDWIN J. BARTLETT, B.A.,  
*Assistant in Chemistry*

ROBERT DAY WILLIAMS, PH.D.,  
*Instructor in Philosophy*

MAUD A. MONROE,  
*Physical Director for Women*

FRANK FLETCHER PALMER, B.A.,  
*Instructor in English*

### SCHOOL OF MUSIC

FRED ALBERT BACON,  
*Director and Instructor in Voice*

MRS. IDA BLAKESLEE,  
*Instructor in Piano*

MABLE CLAIR WEST, B.S.,  
*Instructor in Piano, Theory and Harmony*

SAMUEL EARLE BLAKESLEE,  
*Assistant in Piano Instruction*

ROBERT MARTIN STAPLES  
*Instructor in Violin*



## POMONA COLLEGE

ALFRED APPLING BUTLER,  
*Instructor in Organ, Piano and Theory*

EVA JUANITA SOUTHWICK,  
*Assistant in Voice*

HAZEL MARGARET FAY,  
*Assistant in Piano*

MAUDE M. HUGHES,  
*Assistant in Voice*

FLORENCE WINN,  
*Assistant in Piano and Voice*

## SCHOOL OF ART AND DESIGN

MRS. HANNAH TEMPEST JENKINS, B.A.,  
*Principal*

## OFFICERS OF THE FACULTY

EDWIN CLARENCE NORTON	-----	<i>Registrar</i>
MARY LOUISE ATSATT	-----	<i>Assistant Registrar</i>
MILTON ERASTUS CHURCHILL	-----	<i>Secretary</i>
CHARLES FULLER BAKER	-----	<i>Curator of the Museum</i>

## CLASS OFFICERS FOR 1909-1910

For the Senior class, Professor Brackett.

For the Junior class, Professor Colcord.

For the Sophomore class, Professor Sumner.

For the Freshman class, Professor Norton.

For the Preparatory School, Professor Stearns.

## STANDING COMMITTEES FOR 1909-1910

*Athletics*—Messrs. Sumner, Russell and Corley.

*Buildings and Grounds*<sup>1</sup>—Messrs. Brackett, Baker and Sumner.

*Classification*—Messrs. Norton, Brackett, Colcord, Sumner, Stearns and Frampton and Miss Allen.

*Courses of Study*—Messrs. Brackett, Norton and Sumner.

*Discipline*—Messrs. Norton, Sumner, Stearns and White.

*Instruction*—Messrs. Norton, Hitchcock, Cook and White.

*Lectures*—Messrs. Colcord and ———.

*Library*—Messrs. Sumner, Hitchcock and Frampton and Miss Spalding.

*Prizes*—Messrs. Frampton and Hotson and Miss Parker.

*Publications*—Messrs. Churchill, Frampton, White, Baker and Hotson.

*School of Art and Design*—Miss Spalding, Mrs. Jenkins and Messrs. Colcord and Belcher.

*School of Music*—Messrs. ———, Hitchcock and Bacon.

*Social Affairs*—Misses ——— and Allen and Messrs. Colcord, Frampton and Cook.

*Student Aid and Labor*—Messrs. White, Corley and Stearns and Miss Spalding.

*Student Organizations*—Messrs. Colcord, Churchill and Corley and Misses Parker and Atsatt.

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<sup>1</sup>In conjunction with a committee of the Board of Trustees.



## REQUIREMENTS FOR ADMISSION

### GENERAL REQUIREMENTS

Candidates for admission must present satisfactory testimonials of good moral character and a certificate of honorable dismissal from the last institution attended.

Students from approved schools are admitted without examination on presentation of a certificate signed by the principal, showing in detail the completed courses in which the student is commended. Application blanks for such certificates may be obtained from the Dean and should be filled and returned to him before September first.

For admission to the Freshman class in full standing the certificate must give credit for fifteen courses of commended work of high school grade in classes reciting five periods a week of 45 or 50 minutes each; and this work must include certain specified subjects or groups of subjects. A student who lacks not more than one and one-half credits may be admitted to the Freshman class "with conditions."

Graduates of approved high schools who fail to meet certain of the technical requirements given above may be admitted to the Freshman class in partial standing, and given an opportunity to secure full standing upon satisfactory completion of certain assigned work. This may involve extra work in certain subjects and will

ordinarily take two years. This privilege cannot be granted without a special recommendation of the principal of the high school from which the student has graduated.

Students not received on certificate are expected to take the necessary examinations on the day preceding the opening of the semester.

Students who do not have sufficient credits for entrance to the Freshman class may enter the Preparatory School and if sufficiently mature may, with the advice of the proper classification officer, supplement their work with such college courses as they are fitted to take.

Students from other colleges are admitted to advanced standing on similar certificates signed by the proper official and giving full specifications concerning the nature of the courses taken in their former college, the time spent in each, together with their percentage rank in each subject.

#### GROUPS OF SUBJECTS ACCEPTED FOR ADMISSION

- I Greek a, b, Latin a, b, c, d
- II German a, b, French a, b
- III Mathematics a, b, c,  $d^1$ ,  $d^2$
- IV Physics a, Chemistry a, Biology a, b, c, d
- V English a, b, c, d
- VI History a, b, c, d

# REQUIREMENTS FOR ADMISSION

## TO THE LIBERAL ARTS COURSE

4 years from I and II\*  
2 years from III  
1 year from IV  
2 years from V  
2 years from VI  
4 years elective\*\*†

## TO THE SCIENCE COURSE

4 years from I and II‡  
5 years from III and IV‡‡  
2 years from V  
2 years from VI  
2 years elective†

## TO THE MUSIC COURSE

The requirements for admission to this course are the same as to the Liberal Arts course, with the exception that students must have a sufficient knowledge of music to enable them to pursue the college courses in that subject.

## DESCRIPTION OF COURSES

Each of the following courses constitutes one credit:

### *English*

- a. Rhetoric.
- b. Literature and composition
- c and d. Further study of literature.

The work in all cases to be equivalent to that indicated in the preparatory courses of Pomona College.

The following list is made the basis of examination. A indicates books selected for careful reading; B those requiring close study.

For the classes entering 1909:

- A. Shakespeare's Macbeth and Merchant of Venice; The Sir Roger de Coverly Papers in The Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and Passing of Arthur; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

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\*2 years of which shall be in I.

\*\*It is recommended that 2 years of these electives shall be from I or II and that one shall be from III.

†2 years of these may be from subjects not specified in the subjects accepted for admission if regarded as equivalent.

‡2 years in I or 2 years in II, together with 4 years in V, may be accepted, in which case 4 years in II will be required in college.

‡‡6 years from III and IV required from engineering students.



- B. Shakespeare's Julius Caesar; Milton's Lycidas, Comus L'Allegro and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essay on Milton and Life of Johnson.

### *Latin*

- a. Latin lessons and grammar.
- b. Caesar, Commentaries (Books I-IV).
- c. Vergil, six books of the Aeneid and Latin prosody.
- d. Cicero, seven orations, including those against Catiline and for the poet Archias, and the Manilian Law.

Latin grammar, composition and sight reading are required as a portion of each year's work.

### *Greek*

- a. Greek lessons and grammar.
- b. Xenophon, four books of the Anabasis, and Greek composition.
- c. Homer, three books of the Iliad with prosody; ability to read easy Greek at sight.

### *Modern Languages*

- a. One year of German; elements of grammar; ability to write at dictation and to translate from English; reading of about one hundred and fifty pages of text.

b. Additional work in German, amounting to one year's advanced work in translation and composition.

- c. One year of French; elements of grammar; ability to write at dictation and to translate from English; reading of about one hundred and fifty pages of text.

d. Additional work in French, amounting to one year's advanced work in translation and composition.

### *History*

- a. Ancient History to the coronation of Charlemagne, with special reference to the history of Greece and Rome. (Myers' Ancient History or equivalent.)

b. Medieval and Modern History, a year's work based on a text-book, but including reference reading and note-book work. (Myers' Middle Ages and Myers' Modern Age or equivalent.)

- c. English History, including text, reference and note-book work for one year. (Andrews' History of England or equivalent.)

d. United States History and Civil Government. (Channing's Students' History and Ashley's Federal State or equivalent.)

*Mathematics*

- a. Elements of Algebra, with special attention to factoring and solution of equations, and including ratio and proportion.
- b. Algebra, being a continuation of the course in the elements of Algebra with special emphasis on algebraic theories.
- c. Plane Geometry, with original exercises and problems in mensuration.
- d<sup>1</sup> Solid Geometry, with original exercises and problems.
- d<sup>2</sup> Trigonometry. Elementary course in plane trigonometry.

*Drawing*

- a. Free-hand Drawing, representing the equivalent of two years' work, four periods a week. It should include light and shade, perspective and drawing from models.
- b. Geometrical Drawing, covering five exercises a week for one school year. The course in Free-hand Drawing must precede this course. Special emphasis should be laid upon accuracy and neatness.

*Science*

- a. Physics, covering an elementary knowledge of dynamics, sound, light, heat, magnetism and electricity; recitation and laboratory work.
- b. Chemistry, including class room and laboratory work in the elements of chemistry. At least five exercises a week for one year.
- c. Physical Geography, covering the descriptive and explanatory study of the commoner phenomena of nature, including satisfactory laboratory and field work.
- d. Botany, covering the morphology and simpler physiology of the higher plants, including some acquaintance with the local flora.
- e. Zoology, emphasizing, in a general course, scientific methods and training rather than facts.
- f. Physiology, including anatomy and the more important principles of hygiene.

Work in courses c, d, e and f should consist partly of textbook study, and partly of laboratory and field work accompanied by a notebook containing observations and drawings. This requirement places especial emphasis upon training in observation and in scientific reasoning.

## COLLEGE COURSES AND REQUIREMENTS FOR GRADUATION

The College offers three courses of study of four years each, the Liberal Arts course leading to the degree of Bachelor of Arts, the Science course leading to the degree of Bachelor of Science, and the Music course leading to the degree of Bachelor of Music.

These courses consist of certain required studies but offer a wide range of electives in language and literature, philosophy, economics, history, mathematics, science, and fine arts. The elective studies in each course are subject to certain broad group requirements.

One hundred and twenty-eight units of work are required for graduation. A unit consists of one hour of recitation or lecture, or one period of laboratory work a week for one semester. Three hours are reserved for one laboratory period. Students will usually take seventeen units a semester in Freshman and Sophomore years, and sixteen units a semester in Junior and Senior years, except that in the last semester of Senior year only twelve units are necessary if the previous work has been fully completed.



## DEGREES OF BACHELOR OF ARTS AND BACHELOR OF SCIENCE

The following work is required in courses leading to the degree of Bachelor of Arts or Bachelor of Science:

### FRESHMAN AND SOPHOMORE YEARS

English, 8 units	French or German, 8 or 16 units
Mathematics, 8 units	Physical Culture, 4 units

In case satisfactory work in French or German is offered for admission, the college requirement in these subjects is eight units, otherwise it is sixteen units.

Eight units of Chemistry or Biology may, in some cases, be substituted for the requirements in mathematics.

### JUNIOR AND SENIOR YEARS

Philosophy, <sup>1</sup> 8 units	Economics, <sup>2</sup> 8 units
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### DURING THE COURSE

History, 8 units	Physics, Chemistry or Biology, 8 units
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In case credit is given for three years of preparatory history and civics the college history requirement is waived.

In case a student enters with satisfactory credits for work in physics or chemistry taken during the last two years of his preparatory course and has no similar credit for biology a year's work in college biology is required. In case of entrance with approved credit in biology but not in physics or chemistry one of the latter must be

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<sup>1</sup>To be taken in Junior year except by special permission.

<sup>2</sup>It is desirable that this be taken as far as possible in Junior year.

taken in college. In case satisfactory credits in both biology and physics or chemistry are accepted the student has the option of advanced work in either line.

### DEGREE OF BACHELOR OF MUSIC

The following work is required in the course leading to the degree of Bachelor of Music:

The work required in the course leading to the degree of Bachelor of Music is identical with that of the above courses save that Mathematics and Physics, Chemistry or Biology are omitted and forty units in applied music and twenty units in theory of music and harmony are included.

In addition to the above general requirements, each student elects further courses to bring his total credits to the required one hundred and twenty-eight units. Selections are made subject to the course and group requirements shown under the Scheme of Courses of Study.

### HONORS

The College confers special honors upon students whose scholarship throughout the entire college course is of a certain high grade as indicated by the average of their records for all courses credited toward the Bachelor's degree.

The degree is conferred with the distinction *cum laude* upon those whose average is .87 or over, *magna cum laude* upon those whose average is .90 or over, and *summa cum laude* upon those whose average is .93 or over.

For further information regarding Honors see "General Information."

## SCHEME OF COURSES OF STUDY

In the succeeding pages the figures immediately following each subject indicate the numbers of the courses as designated in the Departments of Instruction. Odd numbers indicate first semester courses, even numbers second semester courses. Unless otherwise specified, each course of study represents four units, that is four hours of recitation or lecture or an equivalent.

For example, in the Liberal Arts course, Freshman year, under Group B, "German 1 and 2" indicates a first semester course of four units entitled German 1 followed by a second semester course of four units entitled German 2.

Students who elect work in any department are expected to continue in that department throughout the year, and credit is not given save in specified cases for less than one year's work in any line.

Any elective course may be withdrawn if not elected by a sufficient number.

## LIBERAL ARTS COURSE

## FRESHMAN YEAR

34 units required (see previous page)

10 units in Group A	8 units in Group C
8 units in Group B	8 units in Group B, C or D
GROUP A	GROUP C <sup>1</sup>
English 1 and 2 (2 units each)	Mathematics 1 and 2
English 21 and 22 (2 units each)	Mathematics 3 and 4
Physical Culture 1 and 2 (1 unit each)	Mathematics 5 and 6
GROUP B	Chemistry 1 and 2 } <sup>2</sup>
German 1 and 2	Chemistry 1a and 2a }
German 3 and 4	Chemistry 1 and 2 } <sup>3</sup>
French 1 and 2	Chemistry 1b and 2b }
Latin 1 and 2	Chemistry 3 and 4
Greek 1 and 2	Biology 1 and 2
Greek 3 and 4	GROUP D
	Fine Arts.

## SOPHOMORE YEAR

34 units required

2 units in Group A	16 or 24 units in Group C
8 or 16 units in Group B	
GROUP A	GROUP C
Physical Culture 3 and 4 (1 unit each)	English 3 and 4
GROUP B <sup>4</sup>	English 23 and 24
German 3 and 4	History 1 and 2
French 1 and 2	Mathematics 1 and 2
Latin 3 and 4	Mathematics 9 and 10
Greek 5 and 6	Mathematics 21 and 22
	Chemistry 5 and 6
	Chemistry 7 and 8
	Chemistry 9 and 10
	Biology 1 and 2
	Biology 11 and 12
	Biology 21 and 22
	Fine Arts

<sup>1</sup>Eight units of Mathematics will ordinarily be taken.<sup>2</sup>Chemistry 1, lectures, and 1a, laboratory, (or 2 and 2a), together constitute a course of 4 units.<sup>3</sup>Chemistry 1 and 1b together constitute a course of 5 units which may be elected by those who desire to specialize in Chemistry.<sup>4</sup>Eight of these must continue Freshman work in the same subject.

## SCIENCE COURSE

## FRESHMAN YEAR

34 units required

10 units in Group A

8 units in Group B

## GROUP A

English 21 and 22 (2 units each)

Graphics 1 and 2 (2 units each)

Physical Culture 1 and 2 (1  
unit each)

## GROUP B

German 1 and 2

German 3 and 4

French 1 and 2

16 units in Group C

GROUP C<sup>1</sup>

Mathematics 1 and 2

Mathematics 3 and 4

Mathematics 5 and 6

Chemistry 1 and 2 } <sup>2</sup>Chemistry 1a and 2a } <sup>3</sup>Chemistry 1 and 2 } <sup>3</sup>Chemistry 1b and 2b } <sup>3</sup>

Chemistry 3 and 4

Biology 1 and 2

## SOPHOMORE YEAR

34 units required

10 units in Group A

8 units in Group B

## GROUP A

English 1 and 2 (2 units each)

Graphics 3 and 4 (2 units each)

Physical Culture 3 and 4 (1  
unit each)GROUP B<sup>4</sup>

German 3 and 4

French 1 and 2

16 units in Group C

## GROUP C

Mathematics 1 and 2

Mathematics 9 and 10

Mathematics 21 and 22

Physics 1 and 2

Chemistry 5 and 6

Chemistry 7 and 8

Chemistry 9 and 10

Biology 1 and 2

Biology 11 and 12

Biology 21 and 22

<sup>1</sup>Mathematics and Chemistry are required of Engineering students and all others who do not present satisfactory entrance credits in Solid Geometry, Trigonometry and Chemistry.

<sup>2</sup>Chemistry 1, lectures, and 1a, laboratory, (or 2 and 2a), together constitute a course of four units.

<sup>3</sup>Chemistry 1 and 1b together constitute a course of five units which may be elected by those who desire to specialize in chemistry.

<sup>4</sup>Physics may be substituted by Engineering students.



## MUSIC COURSE

## FRESHMAN YEAR

34 units required

10 units in Group A

8 units in Group B

## GROUP A

English 1 and 2 (2 units each)

English 21 and 22 (2 units each)

Physical Culture 1 and 2 (1 unit each)

## GROUP B

German 1 and 2

German 3 and 4

French 1 and 2

16 units in Group C

## GROUP C

Music—private lessons in major subject (2 units each semester)

Music—private lessons in minor subject (2 units each semester)

Music 1 and 2 (2 units each)

## SOPHOMORE YEAR

34 units required

10 units in Group A

8 units in Group B

GROUP A<sup>1</sup>

History 1 and 2

Physical Culture 3 and 4 (1 unit each)

GROUP B<sup>1</sup>

German 3 and 4

German 9 and 10

French 1 and 2

16 units in Group C

## GROUP C

Music—private lessons in major subject (2 units each semester)

Music—private lessons in minor subject (2 units each semester)

Music 3 and 4 (2 units each)

<sup>1</sup>In case satisfactory work in French or German or History is offered for admission other electives may be substituted for these requirements.

ALL COURSES  
JUNIOR AND SENIOR YEARS

Students at the beginning of Junior year select one of the Junior-Senior groups outlined below and elect their studies in accordance with its requirements. The requirements of a group are indicated by classes of studies rather than by specific courses. To this end all the elective courses of Junior and Senior years are arranged in classes according to the nature of the subjects treated. Each group contains at least sixteen units in a major subject from one class, eight units in each of two other classes, and a number of free electives, the whole amounting to sixty units. In any class of studies the particular courses chosen are at the option of the student save as one subject is made a prerequisite for further work.

## JUNIOR-SENIOR GROUPS

## LIBERAL ARTS COURSE

## GROUP I—PHILOSOPHICAL,

16 units in Class A  
 8 units in Class B  
 8 units in Class C or E or F  
 28 units free electives

## GROUP II—SOCIOLOGICAL,

16 units in Class B or 16 units  
 in Class C  
 8 units in Class A  
 8 units in Class C or E or F  
 28 units free electives

## GROUP III—HISTORICAL,

16 units in Class C or 16 units  
 in Class G  
 8 units in Class A  
 8 units in Class C or E or F  
 28 units free electives

## GROUP IV—CLASSICAL,

16 units in Class D<sup>1</sup>  
 8 units in Class A  
 8 units in Class B  
 28 units free electives

## GROUP V—LITERARY

16 units in Class E or 16 units  
 in Class F<sup>1</sup>  
 8 units in Class A  
 8 units in Class B  
 28 units free electives

## GROUP VI—MATHEMATICAL,

16 units in Class J  
 8 units in Class A  
 8 units in Class B  
 28 units free electives

## GROUP VII—GENERAL SCIENTIFIC

16 units in Class I or 16 units  
 in Class K  
 8 units in Class A  
 8 units in Class B  
 28 units free electives

## GROUP VIII—ART

16 units in Class H  
 8 units in Class A  
 8 units in Class B  
 28 units free electives

## SCIENCE COURSE

## GROUP IX—SCIENTIFIC A

24 units in Class J or 24 units  
 in Class K  
 8 units in Class A  
 8 units in Class B  
 20 units free electives

## GROUP X—SCIENTIFIC B

24 units in Class I  
 8 units in Class A  
 8 units in Class B  
 20 units free electives

## GROUP XI—ENGINEERING

The work of Junior and Senior years in the Engineering course is selected in consultation with a committee of the faculty.

## MUSIC COURSE

## GROUP XII—MUSICAL,

16 units in music major  
 8 units in Class H  
 8 units in Class B  
 8 units in Class A  
 20 units free electives

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<sup>1</sup>16 units in one language required.

## JUNIOR-SENIOR ELECTIVES

Courses connected by the word "and" must be taken consecutively. The general requirement of a year's work in a department to secure credit and the special departmental requirements of prerequisite courses are the only other limitations.

CLASS A—PHILOSOPHICAL  
Philosophy 1 and 2a and 2b, 3, 4,  
5, 6, 7, 8

CLASS B—SOCIOLOGICAL  
Economics<sup>1</sup> 1, 2, 3, 4, 5, 6, 7, 8,  
9, 10, 11, 12

CLASS C—HISTORICAL  
History 3, 4, 5, 6, 9 and 10, 11  
and 12

CLASS D—CLASSICAL  
Greek 3 and 4, 7, 8, 9, 10, 11, 12  
Latin 5, 6, 7, 8, 11 and 12

CLASS E—ENGLISH  
English Literature 5, 6, 7, 8, 9,  
10, 11  
English Language and Rhetoric  
27, 28, 29, 30, 44

CLASS K—PHYSICAL  
Chemistry 5 and 6, 7, 8, 9, 10  
Physics 1 and 2, 3 and 4, 5  
and 6  
Astronomy 1 and 2, 3 and 4

CLASS F—MODERN LANGUAGE  
French 3, 4, 5, 6  
German 5, 6, 7, 8, 9, 10  
Spanish 1 and 2, 3 and 4

CLASS G—BIBLICAL  
Bible 1 and 2, 3, 4, 5, 6

CLASS H—FINE ARTS  
Art 5 and 6, 7 and 8  
History of Art 11 and 12, 13  
and 14  
Music 5, 6, 7, 8, 9, 10, 11, 12

CLASS I—BIOLOGICAL  
Biology 3, 4, 5, 6, 13, 14, 23,  
24, 25, 26  
Geology 2

CLASS J—MATHEMATICAL  
Mathematics 11, 12, 13 and 14  
Astronomy 3 and 4

The following studies, intended primarily for underclassmen, may, with the consent of the class officer and instructor, be taken in Junior year. In such cases extra work may be required to secure full credit.

Greek 1 and 2, 5, 6  
Latin 3, 4  
French 1 and 2  
German 3 and 4  
History 1 and 2, 7, 8

Biology 1 and 2, 11 and 12, 21  
and 22  
Mathematics 3 and 4, 7 and 8,  
9 and 10  
Chemistry 5 and 6

<sup>1</sup>A year's work in Economics is necessary to meet the group requirement.

## HOURS OF RECITATION—FIRST SEMESTER

## FORENOON

	7:30	8:25	9:20	10:15
Senior and Junior	English 29 Economics 5 or 3 A Philosophy 1 Engineering 13 T-F	English 5 Philosophy 3 History 9 Physics 1 T-F	English 7 Astronomy 3 A Economics 1 Latin 7 History 5 T-F W-S	B Economics 1 German 7 T, W, F, S Biology 3, 11 Biology 23 T, W, F
	Laboratory in Biology 5, 11, 15 and 23, Philosophy 1, Engineering 5 and Physics 3 S			Lecture Th
Sophomore	History 1 Latin 3 T, Th-S	Physics 1 Greek 1 Mathematics 1 English 23 T-F	History 5 A French 1 A German 3 W-S	B French 1 Mathematics 7 Greek 5 T, W, F, S Biology 11 T, W, F
				Lecture Th
Freshman	A English 1 and 21 A German 1 T, Th-S	Greek 1 Mathematics 1 Greek 3 T-F	A German 3 A French 1 Mathematics 5 W-S Chemistry 1 T, Th, S	B French 1 B English 1 and 21 A Latin 1 T, W, F, S Lecture Th
Senior Preparatory	English d T-S	German b T-S	Greek c Mathematics d T-S	Lecture Th Chemistry a W, F, S Physics a T, W, S
Senior-Middle Preparatory	History b T-S	Mathematics c T-F Drawing b S	German a T-S	Lecture Th Chemistry a W, F, S
Junior-Middle Preparatory	History b T-S	Greek a T-S Biology a T, Th, S Biology a Laboratory W, F	Drawing a Th Biology a Laboratory W, F	Lecture Th Mathematics b T, W, F, S

Chapel exercises daily at 11:10 a. m.



## HOURS OF RECITATION—FIRST SEMESTER

## AFTERNOON

	12:35	1:30	2:25	3:20
Senior and Junior	Spanish 1 Biblical Literature 1 T,W,F,S	Astronomy 1 English 41 Greek 7 or 9 French 5 T,W,F,S	English 11 Mathematics 13 or 15 Philosophy 5 or 7 Economics 7 or 9 T,W,F,S Biology 21 W,Th,F	B Philosophy 1 History 3 Spanish 3 T-F
	Laboratory in Biology 5, 11, 15 and 23, Philosophy 1 and Physics 3 Th			
Sophomore	Laboratory in Biology 1, 11 and 21 and Chemistry 5 Engineering 3 Mathematics 11	T,W,S T,W,S W,F S	Biology 1 21 W,Th,F German 3 T,W,F,S Mathematics 11 T,Th,F	Chemistry 5 T,W,F English 3 T-F Mathematics 11 T,Th
Freshman	Engineering 1 Chemistry 1 a, 1 b and 3 Biology 1	T,Th W,F,S T,Th,S	B German 3 Mathematics 3 T,W,F,S Chemistry 3 T,Th,S Biology 1 W,Th,S	B German 1 B Latin 1 T-F
Senior Preparatory	History d T-S	Latin d T-S	Chemistry a Physics a	Laboratory Laboratory T,Th W,F
Senior-Middle Preparatory	Latin c T-S	English c T-S	Chemistry a Laboratory Greek b	Chemistry a Laboratory T,Th T-S T,Th
Junior-Middle Preparatory		Latin b T-S	English b T-S	

T, W, Th., F, S—Tuesday, Wednesday, Thursday, Friday, Saturday

## HOURS OF RECITATION—SECOND SEMESTER

## FORENOON

	7:30	8:25	9:20	10:15
Senior and Junior	English 30 Economics 8 or 10 A Philosophy 2 Engineering 14 T-F	English 6 Philosophy 4 History 10 Physics 2 T-F	English 8 Astronomy 4 Economics 2 Latin 8 History 6 W-S	Economics 6 German 8 T, W, F, S Biology 12 Biology 24 T, W, F
	Laboratory in Biology 6, 12, 14 and 24, Engineering 6 and Physics 2			Lecture Th
Sophomore	History 2 Latin 4 T, Th-S	Physics 2 Greek 2 Mathematics 2 English 24 T-F	History 6 A French 2 A German 4 W-S	B French 2 Mathematics 8 Greek 6 T, W, F, S Biology 12 T, W, F Lecture Th
Freshman	A English 2 and 22 A German 2 T, Th-S	Greek 2 Mathematics 2 Greek 4 T-F	A German 4 A French 2 Mathematics 6 W-S Chemistry 2 T, Th, S	B French 2 B English 2 and 22 A Latin 2 T, W, F, S Lecture Th
Senior Preparatory	English d T-S	German b T-S	Greek c Mathematics d T-S	Chemistry a W, F, S Physics a T, W, S Lecture Th
Senior-Middle Preparatory	History b T-S	Mathematics c T-F Drawing b S	German a T-S	Chemistry a W, F, S Lecture Th
Junior-Middle Preparatory	History b T-S	Greek a Biology a Laboratory T-S T, Th, S W, F	Drawing a Biology a Laboratory Th W, F	Mathematics b T, W, F, S Lecture Th

Chapel exercises daily at 11:10 a. m.

## HOURS OF RECITATION—SECOND SEMESTER

## AFTERNOON

	12:35	1:30	2:25	3:20
Senior and Junior	Spanish 2 Biblical Literature 2 T,W,F,S	Astronomy 2 Greek 8 or 10 French 6 T,W,F,S	English 28 Mathematics 14 or 16 Philosophy 6 or 8 Economics 12 T,W,F,S Biology 22 W,Th,F	B Philosophy 2 History 4 Spanish 4 Geology 2 T-F
	Laboratory in Biology 6, 12, 14 and 24 and Physics 2			Th
Sophomore	Laboratory in Biology 2, 12 and 22 and Chemistry 6 Engineering 4 Mathematics 12	T,W,S W,F S	Biology 2 and 22 W,Th,F B German 4 T,W,F,S Mathematics 12 T,Th,F	Chemistry 6 T,W,F English 4 T-F Mathematics 12 T,Th
Freshman	Engineering 2 Chemistry 2 a, 2 b and 4 Biology 2	T,Th W,F,S T,Th,S	B German 4 Mathematics 4 T,W,F,S Chemistry 4 T,Th,S Biology 2 W-F	B German 2 B Latin 2 T-F
Senior Preparatory	History d T-S	Latin d T-S	Chemistry a Physics a	Laboratory T,Th W,F
Senior-Middle Preparatory	Latin c T-S	English c T-S	Chemistry a Laboratory T,Th Greek b T-S	Chemistry a Laboratory T,Th
Junior-Middle Preparatory		Latin b T-S	English b T-S	

T, W, Th, F, S—Tuesday, Wednesday, Thursday, Friday, Saturday

## DEPARTMENTS OF INSTRUCTION

### ASTRONOMY

1 and 2. General Astronomy. Designed for students who may have had only elementary courses in physics, chemistry and trigonometry. Junior and Senior years, class-room three hours a week, observatory one period a week, both semesters. 1:30 T,W,F,S. Mr. Brackett.

3. Descriptive Astronomy and Astrophysics. A more advanced course than Astronomy 1, designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles and laboratory methods in physical science. Junior and Senior years, first semester. 9:20 T-F. Mr. Brackett.

4. Theoretical and Practical Astronomy. Prerequisite: Astronomy 3. Junior and Senior years, second semester. 9:20 T-F. Mr. Brackett.

### BIBLICAL HISTORY AND LITERATURE

I. Hebrew History and Literature. From the early Semitic history to the Babylonian exile. Junior and Senior years, first semester. 12:35 T,W,F,S. Mr. Stearns.

2. Jewish and Early Christian History and Literature. From the Babylonian exile to the later Apostolic

age. Junior and Senior years, second semester. 12:35 T, W, F, S. Mr. Stearns.

3. History of Religions. Junior and Senior years, first semester. (Not given in 1909-1910.)

4. History of Christianity. Junior and Senior years, second semester. (Not given in 1909-1910.)

5. Ancient Oriental History. (Not given in 1909-1910.)

6. Ancient Oriental History. Continuation of Biblical Literature 5. Junior and Senior years, second semester. (Not given in 1909-1910.)

## BIOLOGY

### GENERAL BIOLOGY

1. General Biology. Prerequisite to all further work in Zoology. Freshman and Sophomore years, first semester. 2:25 W-F. Mr. Baker.

2. General Biology. Prerequisite to all other courses in Botany. Class-room three hours a week, laboratory one period a week. Freshman and Sophomore years, second semester. 2:25 W-F. Mr. Hotson.

3. Anatomy and Physiology. Human and comparative. Junior and Senior years, first semester. 10:15 T, W, F. Mr. Cook.

4. Anatomy and Physiology. Continuation of Biology 3. Prerequisite: Biology 1 or 2. Junior and Senior years, second semester. (Not given in 1909-1910.)

5. Histology. Vertebrate. Prerequisites: Biology 3 and 4. Junior and Senior years, first semester. Mr. Baker.



6. Embryology. Prerequisite: Biology 5. Junior and Senior years, second semester. Mr. Baker.

#### ZOOLOGY

11. General Zoology. Prerequisites: Biology 1 and 2 or their equivalents. Sophomore and Junior years, first semester. 10:15 T,W,F. Mr. Cook and Mr. Baker.

12. Advanced Zoology. Prerequisite: Biology 11. Sophomore and Junior years, second semester. 10:15 T,W,F. Mr. Baker.

14. Entomology. Prerequisite: Biology 11. Junior and Senior years, second semester. Mr. Cook.

15. Special Entomology. Prerequisites: Biology 11, 12 and 14. Junior and Senior years, first semester. Mr. Baker.

#### BOTANY

21. Cryptogamic Botany. Class-room two hours a week, laboratory two periods a week. Prerequisite: Biology 2 or its equivalent. Sophomore and Junior years, first semester. 2:25 W-F. Mr. Hotson.

22. Phaenogamic Botany. Continuation of Biology 2. Class-room two hours a week, laboratory two periods a week. Prerequisite: Biology 21. Sophomore and Junior years, second semester. 2:25 W-F. Mr. Hotson.

23. Plant Physiology. Alternates with Biology 25. Class-room two hours a week, laboratory three periods a week. Prerequisites: Biology 21 and 22. Junior and Senior years, first semester. 10:15 T,W,F. Mr. Hotson.

24. Fungi. Alternates with Biology 26. Class-room two hours a week, laboratory two periods a week. Prerequisite: Biology 22. Junior and Senior years, second semester. 10:15 T,W,F. Mr. Hotson.

25. Plant Anatomy and Histology. Alternates with Biology 23. Class-room two hours a week, laboratory two periods a week. Prerequisite: Biology 22. Junior and Senior years, first semester. (Not given in 1909-1910.)

26. Plant Pathology. Alternates with Biology 24. Class-room two hours a week, laboratory two periods a week. Prerequisite: Biology 24. Junior and Senior years, second semester. (Not given in 1909-1910.)

## CHEMISTRY

1 and 2. General Inorganic Chemistry. Prerequisite: A training in descriptive chemistry equivalent to that offered in the Preparatory School. Three hours a week; Freshman year, both semesters. 9:20 T,Th,S. Mr. Lyman.

1a and 2a. Qualitative Analysis. One laboratory period a week. Required of all those taking Chemistry 1 and 2. Freshman year, both semesters. 12:35 W,F,S. Mr. Bartlett.

1b and 2b. Inorganic Preparations. One laboratory period a week. Recommended to students taking Chemistry 1 and 2. Freshman year, both semesters. 12:35 W,F, S. Mr. Lyman and Mr. Bartlett.

3 and 4. Special Inorganic Chemistry. Class-room three hours a week, laboratory either one or two

periods a week. Designed for Freshmen who do not present Chemistry as an entrance credit. Freshman year, both semesters. 2:25 T,Th,S; Lab. 12:35 W,F,S. Mr. Lyman and Mr. Bartlett.

5 and 6. Organic Chemistry. Class-room work three hours a week; laboratory one period a week. Also Organic Preparations. Prerequisites: Chemistry 1 and 2 and 1a and 2a, or 3 and 4. Sophomore year, both semesters. 3:20 T,W,F; Lab. 12:35 T,W,S. Mr. Lyman.

7. Quantitative Analysis. Laboratory three periods a week. Prerequisites: Chemistry 1a and 2a, 1b and 2b. Junior and Senior years, first semester. Mr. Lyman and Mr. Bartlett.

8. Quantitative Analysis. Advanced course. Laboratory three periods a week. Prerequisite: Chemistry 7. Junior and Senior years, second semester. Mr. Lyman and Mr. Bartlett.

9. Quantitative Analysis. Special methods. Laboratory four periods a week. Prerequisite: Chemistry 7. Junior and Senior years, first semester. Mr. Lyman and Mr. Bartlett.

10. Inorganic Preparations. Laboratory, four periods a week. Prerequisite: Chemistry 7. Junior and Senior years, second semester. Mr. Lyman and Mr. Bartlett.

## ECONOMICS AND SOCIOLOGY

1. Principles of Economics. Prerequisite for all later studies in this department, unless by written permission of the head of the department. Required in all

courses; Junior and Senior years, first semester. 9:20 T-F or 10:15 T,W,F,S. Mr. Sumner.

2. Public Finance. Prerequisite: Economics 1. Alternates with Economics 4. Junior and Senior years, second semester. 9:20 T-F. Mr. Sumner.

3<sup>1</sup>. Principles of Sociology. Prerequisite: Economics 1. Junior and Senior years, first semester. 7:30 T-F. Mr. Sumner.

4. Money and Banking. Prerequisite: Economics 1. Alternates with Economics 2. Junior and Senior years, second semester. (Not given in 1909-1910.)

5<sup>1</sup>. Poor Relief. Prerequisite: Economics 1. Junior and Senior years, first semester. 7:30 T-F. Mr. Sumner.

6. Problems of Labor. Prerequisite: Economics 1. Junior and Senior years, second semester. 10:15 T,W,F,S. Mr. Sumner.

7<sup>2</sup>. Corporation Economics. Prerequisite: Economics 1. Junior and Senior years, first semester. 2:25 T,W,F, S. Mr. Sumner.

8<sup>3</sup>. City Problems. Prerequisite: Economics 1. Junior and Senior years. 7:30 T-F. Mr. Sumner.

9<sup>2</sup>. Theories of Social Reform. Elective to those who have taken or are taking Economics 1. Junior and Senior years, first semester. 2:25 T,W,F,S. Mr. Sumner.

10<sup>3</sup>. Criminology. Junior and Senior years, second semester. 7:30 T-F. Mr. Sumner.

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<sup>1</sup>Only one of these courses given 1909-1910.

<sup>2</sup>Only one of these courses given 1909-1910.

<sup>3</sup>Only one of these courses given 1909-1910.

11. Practical Sociology. Those taking Economics 5 or 8 are expected to spend a week in Los Angeles examining, at first hand, the industrial institutions and social conditions of today. Thanks to the hearty co-operation of Rev. Dana W. Bartlett, of the Bethlehem Institutional Church, who has worked out many of the details of the trip and has given his time most generously, these weeks have proved of such value as to lead to their being a permanent feature of our sociological study.

12. Economic Seminar. An intensive study of some economic problem or problems under the direction of the head of the department. Open to those who have at least twelve units credit for work in the department. Junior and Senior years, second semester. 2:25 T,W,F,S. Mr. Sumner.

## ENGINEERING AND GRAPHICS

1 and 2. Graphics. Required of all students in the Science course; Freshman year, two hours a week, both semesters. 12:35 T,Th. Mr. Belcher.

3 and 4. Graphics. Prerequisites: Engineering 1 and 2. Required in the engineering division of the Science course; Sophomore year, two hours a week, both semesters. 12:35 W,F. Mr. Belcher.

5 and 6. Machine Drawing. Prerequisites: Engineering 1 and 2 and either 3 and 4 or 9 and 10. One drawing-room period a week; Junior and Senior years, both semesters. 7:30 S. Mr. Belcher.

9 and 10. Descriptive Geometry and Perspective.



The same as Mathematics 9 and 10. (Not given in 1909-1910.)

11. Surveying. Prerequisites: Mathematics 1 and 2 and Engineering 1 and 2. Sophomore year, first semester. Mr. Belcher.

12. Surveying. Prerequisites as in Engineering 11. Sophomore year, second semester. Mr. Belcher.

13 and 14. Applied Mechanics. Three days a week; Junior and Senior years, both semesters. 7:30 T-Th. Mr. Belcher.

### ENGLISH LITERATURE

1 and 2. American Literature. Required in all courses; Freshman year, two divisions, two hours a week, both semesters. 7:30 T,F or 10:15 T,F. Miss Spalding.

3. Comparative Literature. Sophomore year, first semester. 3:20 T-F. Miss Spalding.

4. History of English Literature. Prerequisite to advanced work in English. Sophomore year, second semester. 3:20 T-F. Miss Parker.

5. Shakespeare and early contemporaries. At least one course in Shakespeare prerequisite to advanced work in English. Junior and Senior years, first semester. 8:25 T-F. Miss Spalding.

6. Shakespeare and later contemporaries. Tragedies and romances. At least one course in Shakespeare prerequisite to advanced work in English. Junior and Senior years, second semester. 8:25 T-F. Miss Spalding.

7. English essayists from Bacon to Arnold. Al-

ternates with English 9. Junior and Senior years, first semester. 9:20 T-F. Miss Spalding.

8. British poets from Milton to Burns. Alternates with English 10. Junior and Senior years, second semester. 9:20 T-F. Miss Spalding.

9. Development of the novel. Alternates with English 7. Junior and Senior years, first semester. (Not given in 1909-1910.)

10. British poets from Wordsworth to Tennyson. Alternates with English 8. Junior and Senior years, second semester. (Not given in 1909-1910.)

11. History of the English Drama to 1642. Complementary to English 5 and 6. Junior and Senior years, first semester. 2:25 T,W,F,S. Mr. Frampton.

### ENGLISH LANGUAGE AND RHETORIC

21 and 22. Composition. Credit for English 21 is allowed only on the completion of English 22. Required in all courses; Freshman year, two divisions, two hours a week, both semesters. 7:30 Th,S or 10:15 W,S. Mr. Palmer.

23. Composition. Sophomore year, first semester. 8:25 T-F. Mr. Frampton.

24. Argumentation. Sophomore year, second semester. 8:25 T-F. Mr. Frampton.

27. Literary Criticism. Junior and Senior years, first semester. (Not given in 1909-1910.)

28. The Short-Story. Junior and Senior years, second semester. 2:25 T,W,F,S. Mr. Frampton.

29. Advanced Argumentation. Junior and Senior years, first semester. 7:30 T-F. Mr. Frampton.

30. Public Address. Junior and Senior years, second semester. 7:30 T-F. Mr. Frampton.

41. Anglo-Saxon. Required of students whose major is English. Junior and Senior years, first semester. (Not given in 1909-1910.)

42. Beowulf. Prerequisite: English 41. Junior and Senior years, second semester. (Not given in 1909-1910.)

44. Chaucer. Junior and Senior years, second semester. (Not given in 1909-1910.)

## FINE ARTS

### ART

Credit is given toward the degree of Liberal Arts for courses in art amounting to at least sixteen units but not exceeding thirty-two units, provided the work is sufficiently advanced and is accompanied or preceded by the required work in reading and lectures on the history and theory of art.

A full description of the courses is given under the heading "School of Art and Design."

### HISTORY OF ART

11 and 12. Outline study of oriental and classical periods of architecture, sculpture and painting. Junior and Senior years, two hours a week, both semesters. Miss Spalding.

13 and 14. Outline study of renaissance and modern periods of architecture. Junior and Senior years, two hours a week, both semesters. Miss Spalding.

### MUSIC

Credit is given toward the degree of Liberal Arts for courses in music not exceeding thirty-two units. Half of these may be in applied music, provided the work is sufficiently advanced and is accompanied or preceded by work in theoretical music.

A fuller description of the courses named below is given under the heading "School of Music." Each course receives two units credit a semester.

1 and 2. Harmony and Counterpoint.

3 and 4. Advanced Harmony and Strict Counterpoint.

5 and 6. Free Counterpoint and Composition.

7 and 8. Advanced Composition.

9 and 10. History of Music.

11 and 12. Advanced History of Music.

Applied Music. Courses in voice, piano, organ and violin described in "School of Music."

### FRENCH

1. Elementary Course. Freshman and Sophomore years, first semester. 9:20 W-S or 10:15 T,W,F,S. Mr. Corley.

2. Modern Prose Drama. Freshman and Sophomore years, second semester. 9:20 W-S or 10:15 T,W,F,S. Mr. Corley.

3. Romantic School. Prerequisite: French 2 or

its equivalent. Junior and Senior years, first semester. (Not given in 1909-1910.)

4. Classic Drama. Prerequisite: French 3. Junior and Senior years, second semester. (Not given in 1909-1910.)

5. French Novel of the Nineteenth Century. Prerequisite: French 2 or its equivalent. Junior and Senior years, first semester. 1:30 T,W,F,S. Mr. Corley.

6. French Novel of the Nineteenth Century. Prerequisite: French 5 or its equivalent. Junior and Senior years, second semester. 1:30 T,W,F,S. Mr. Corley.

## GEOLOGY

2. Geology. Prerequisite: Biology 11. Junior and Senior years, second semester. 3:20 T-F. Mr. Cook.

## GERMAN

1. Elementary Course. This and German 2 are especially intended for Freshmen who do not offer Modern Language, but have other equivalents. Open only to students of college grade. Freshman year, first semester. 7:30 T,Th-S or 3:20 T-F. Mr. Phelps.

2. Continuation of German 1. Freshman year, second semester. 7:30 T,Th-S or 3:20 T-F. Mr. Phelps.

3. Prose Narrative and Drama. Prerequisite: Elementary German equivalent to that offered in the Preparatory School. Freshman and Sophomore years, first semester. 9:20 W-S or 2:25 T,W,F,S. Mr. Churchill.

4. Schiller. Prerequisite: German 3. Freshman

and Sophomore years, second semester. 9:20 W-S or 2:25 T,W,F,S. Mr. Churchill.

5. Lessing. Prerequisites: German 3 and 4 or their equivalent. Junior and Senior years, first semester. (Not given in 1909-1910.)

6. Goethe. Prerequisite: German 5. Junior and Senior years, second semester. (Not given in 1909-1910.)

7. Outline Course in History of German Literature to the age of Lessing. Junior and Senior years, first semester. 10:15 T,W,F,S. Mr. Phelps.

8. Recent and Contemporary German Authors. Junior and Senior years, second semester. 10:15 T,W,F,S. Mr. Phelps.

9. German Novel of the Nineteenth Century. Junior and Senior years, first semester. (Not given in 1909-1910.)

10. German Novel of the Nineteenth Century. Junior and Senior years, second semester. (Not given in 1909-1910.)

## GREEK

1. Lysias. Freshman year, first semester. 8:25 T-F. Mr. Norton.

2. Plato. Apology and Crito with selections from Phaedo. Homer: Odyssey. Freshman year, second semester. 8:25 T-F. Mr. Norton.

3. Greek Lessons. A course designed for those wishing to begin the study of the language after entering college. Freshman year, first semester. 8:25 T-F. Miss Allen.



4. Xenophon. *Anabasis*. Those who complete Greek 3 and 4 with high grade may in the Sophomore year elect Greek 1 and 2. Freshman year, second semester. 8:25 T-F. Miss Allen.

5. Aeschylus and Sophocles. Sophomore year, first semester. 10:15 T,W,F,S. Mr. Norton.

6. Demosthenes. *Oration on the Crown*. Sophomore year, second semester. 10:15 T,W,F,S. Mr. Norton.

7<sup>1</sup>. Hellenistic Greek. Alternates with Greek 9. Junior and Senior years, first semester. 1:30 T,W,F,S. Mr. Norton.

8<sup>2</sup>. Homer. Alternates with Greek 10. Junior and Senior years, second semester. 1:30 T,W,F,S. Mr. Norton.

9<sup>1</sup>. Plato. *Phaedo* and *Protagoras*. Alternates with Greek 7. Junior and Senior years, first semester. 1:30 T,W,F,S. Mr. Norton.

10<sup>2</sup>. Thucydides: Books VI and VII. Alternates with Greek 8. Junior and Senior years, second semester. 1:30 T,W,F,S. Mr. Norton.

11 and 12. Prose Composition and sight reading. Required of all making Greek a major. One hour a week; Junior and Senior years, both semesters. Mr. Norton.

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<sup>1</sup>Only one of these courses given 1909-1910.

<sup>2</sup>Only one of these courses given 1909-1910.

## HISTORY

1. Medieval History. Sophomore year, first semester. 7:30 T,Th-S. Mr. White.

2. The Renaissance and Reformation. Sophomore year, second semester. 7:30 T,Th-S. Mr. White.

3. Europe in the Eighteenth Century. Junior and Senior years, first semester. 3:20 T-F. Mr. White.

4. Europe in the Nineteenth Century. Junior and Senior years, second semester. 3:20 T-F. Mr. White.

5. American Social and Political History to 1829. Sophomore and Junior years, first semester. 9:20 W-S. Mr. White.

6. American Social and Political History since 1829. Sophomore and Junior years, second semester. 9:20 W-S. Mr. White.

7. English Social and Political History to 1603. Sophomore and Junior years, first semester. (Not given in 1909-1910.)

8. English Social and Political History since 1603. Sophomore and Junior years, second semester. (Not given in 1909-1910.)

9 and 10. Comparative Constitutional History. Junior and Senior years, both semesters. 8:25 T-F. Mr. White.

11 and 12. American Constitutional History and Law. Junior and Senior years, both semesters. (Not given in 1909-1910.)

## LATIN

1. Cicero. De Senectute and De Amicitia; Livy; Books XXI and XXII, selections. Freshman year, first semester. 10:15 T,W,F,S or 3:20 T-F. Mr. Colcord.

2. Horace. Freshman year, second semester. 10:15 T,W,F,S or 3:20 T-F. Mr. Colcord.

3. Pliny; Letters. Tacitus; Agricola and Germania. Sophomore year, first semester. 7:30 T,Th-S. Mr. Colcord.

4. Plautus. Captivi, Trinummus. Terence: Adelphi, Andria. Sophomore year, second semester. 7:30 T,Th-S. Mr. Colcord.

5. Cicero. Letters, Tusculan Disputations. Roman satire; Persius, Martial and Juvenal. Junior and Senior years, first semester. (Not given in 1909-1910.).

6. Catullus; Lucretius; Tibullus; Propertius; Ovid; Lucan. Composition. Roman Literature. Junior and Senior years, second semester. (Not given in 1909-1910.)

7. Tacitus. Histories and Annals. Junior and Senior years, first semester. 9:20 T-F. Mr. Colcord.

8. Vergil. Bucolics and Aeneid; Books VII-XII. Ovid. Selections. Christian and Latin Hymns. Junior and Senior years, second semester. 9:20 T-F. Mr. Colcord.

11 and 12. Prose composition and sight reading. Required of all making Latin a major. Junior and Senior years, one hour a week, both semesters. Mr. Colcord.

## MATHEMATICS

There are three divisions of Freshman Mathematics. Those who have credit for courses a, b, c and d<sup>1</sup> and d<sup>2</sup> of the "Requirements for Admission" may enter the first division; those who have credit for less enter the second or third division.

Mathematics 1 and 2 are given to the first division and are prescribed for students in engineering. They are also prerequisite to advanced work in mathematics and physics.

Mathematics 3 and 4 are given to the second division, and are intended for those who may wish to take further work in mathematics but who have not sufficient preparation for the work of the first division.

Mathematics 5 and 6 are given to the third division, and are intended primarily for those who do not expect to take further work in mathematics.

## DIVISION I

1. Analytic Geometry and Calculus. Freshman and Sophomore years, first semester. 8:25 T-F. Mr. Brackett.

2. Analytic Geometry and Calculus. Freshman and Sophomore years, second semester. 8:25 T-F. Mr. Brackett.

## DIVISION II

3. Algebra. Freshman year, first semester. 2:25 T,W,F,S. Miss Berry.

4a. Plane Trigonometry. Freshman year, first ten weeks, second semester. 2:25 T,W,F,S. Miss Berry.

4b. Solid Geometry. Freshman year, last eight weeks, second semester. 2:25 T,W,F,S. Miss Berry.

## DIVISION III

5. Plane Trigonometry. A more elementary but more extended course than Mathematics 4a. Freshman year, first semester. 9:20 W-S. Mr. Russell.

6. Solid Geometry. Freshman year, second semester. 9:20 W-S. Mr. Russell.

7. Differential and Integral Calculus. Required of students in engineering and physical science; elective in other courses; Sophomore year, first semester. 10:15 T,W,F,S. Mr. Russell.

8. Analytic Geometry and Calculus. Required of students in engineering and physical science; elective in other courses; Sophomore year, second semester. 10:15 T,W,F,S. Mr. Russell.

9. Descriptive Geometry. Alternates with Mathematics 11. The same as Engineering 9. Prerequisites: Mathematics 1 and 2, and Engineering 1 and 2, or two years of preparatory drawing. Sophomore year, first semester. (Not given in 1909-1910.)

10. Perspective. Alternates with Mathematics 12. The same as Engineering 10. Prerequisites as in Mathematics 9. Sophomore year, second semester. (Not given in 1909-1910.)

11 and 12. Surveying. The same as Engineering 11 and 12. Mr. Belcher.

13<sup>1</sup>. Theory of Equations. Prerequisites: Mathematics 3 and 4. Junior and Senior years, first semester. 2:25 T,W,F,S. Mr. Brackett.

<sup>1</sup>Only one of Mathematics 13 and 15 given 1909-1910.

14<sup>2</sup>. Differential Equations. Prerequisites as in Mathematics 13. Junior and Senior years, second semester. 2:25 T,W,F,S. Mr. Brackett.

15<sup>1</sup> and 16<sup>2</sup>. Analytic Mechanics. Prerequisites as in Mathematics 13. Junior and Senior years, both semesters. 2:25 T,W,F,S. Mr. Brackett.

## PHILOSOPHY

1<sup>3</sup>. Psychology. Required in all courses; Junior and Senior years, first semester. 7:30 T-F or 3:20 T-F. Mr. Williams.

2a<sup>3</sup>. Logic. Required in all courses; Junior and Senior years, first eight weeks, second semester. 7:30 T-F or 3:20 T-F. Mr. Williams.

2b<sup>3</sup>. Ethics. Required in all courses; Junior and Senior years, last ten weeks, second semester. 7:30 T-F or 3:20 T-F. Mr. Williams.

3. Introduction to Philosophy. Junior and Senior years, first semester. 8:25 T-F. Mr. Williams.

4. Philosophy of Religion. Junior and Senior years, second semester. 8:25 T-F. Mr. Williams.

5<sup>4</sup>. Movements of thought in the eighteenth and nineteenth centuries. Junior and Senior years, first semester. 2:25 T,W,F,S. Mr. Williams.

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<sup>1</sup>Only one of Mathematics 13 and 15 given 1909-1910.

<sup>2</sup>Only one of these courses given 1909-1910.

<sup>3</sup>To be taken in the Junior year except by special permission.

<sup>4</sup>Only one of Philosophy 5 and 7 given 1909-1910.



6<sup>1</sup>. History of Philosophy. Junior and Senior years, second semester. 2:25 T,W,F,S. Mr. Williams.

7<sup>2</sup>. Aesthetics. Junior and Senior years, first semester. 2:25 T,W,F,S. Mr. Williams.

8<sup>1</sup>. History of Philosophy. Alternates with Philosophy 6. Junior and Senior years, second semester. 2:25 T,W,F,S. Mr. Williams.

## PHYSICAL CULTURE

### MEN

Physical Measurements. Prescribed exercises. Required of all Freshmen, both semesters; optional for Sophomores, Juniors and Seniors. Mr. Stanton.

1 and 2. Gymnasium. Required in Freshman year; elective in Junior and Senior years, both semesters. Mr. Stanton.

3 and 4. Gymnasium. A continuation of Gymnasium 1 and 2. Required in Sophomore year; elective in Junior and Senior years, both semesters. Mr. Stanton.

Outdoor Athletics. May be substituted for gymnasium; amount of work to satisfy requirements of course, and line of sport engaged in determined by the physical director.

### WOMEN

Physical Measurements. Prescribed exercises. Required of all Freshmen, both semesters; optional for Sophomores, Juniors and Seniors. Miss Monroe.

1 and 2. Gymnasium. Two class periods a week count for one unit credit each semester. Required in

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<sup>1</sup>Only one of these courses given 1909-1910.

<sup>2</sup>Only one of Philosophy 5 and 7 given 1909-1910.

Freshman and Sophomore years; elective in Junior and Senior years, both semesters. Miss Monroe.

3 and 4. Gymnasium. A continuation of Gymnasium 1 and 2. Required in Sophomore year; elective in Junior and Senior years, both semesters. Miss Monroe.

Outdoor Athletics. May be substituted for gymnasium; amount of work to satisfy requirements of course, and exercise engaged in determined by the physical director.

### PHYSICS

1. General Physics. Prerequisite: a good working knowledge of algebra, geometry and trigonometry. Required in the Science course of all who have not had a thorough course in secondary school physics; Sophomore and Junior years, first semester. 8:25 T-F. Mr. Hitchcock.

2. Light, Magnetism and Electricity. Continuation of Physics 1. Sophomore and Junior years, second semester. 8:25 T-F. Mr. Hitchcock.

3 and 4. Physical Measurements. Designed primarily for students in mechanical and electrical engineering. Prerequisites: Physics 1 and 2. Junior and Senior years, both semesters. Mr. Hitchcock.

5 and 6. Physical Experiments. Meets the requirements of students in civil and mining engineering. Sophomore, Junior and Senior years, both semesters. Mr. Hitchcock.

## SPANISH

1. Elementary Course. Junior and Senior years, first semester. 12:35 T,W,F,S. Mr. Corley.
2. Modern Prose. Junior and Senior years, second semester. 12:35 T,W,F,S. Mr. Corley.
3. Modern Drama and Poetry. Prerequisite: Spanish 2, or equivalent. Junior and Senior years, first semester. 3:20 T-F. Mr. Corley.
4. Classics. Prerequisite: Spanish 3, or equivalent. Junior and Senior years, second semester. 3:20 T-F. Mr. Corley.



# Preparatory School<sup>1</sup>

## REQUIREMENTS FOR ADMISSION

Candidates for admission to the lowest class of the Preparatory School must present papers showing that they have completed the ninth grade of the public school, or the first year of the high school, or pass satisfactory examinations in elementary algebra, English, elementary Latin, and ancient history. A certificate of good moral character is required in all cases.

Candidates for admission to an advanced class must present certificates from approved schools covering all studies of the course completed by the class they wish to enter or a full and approved equivalent of the same; otherwise they must pass satisfactory examinations in all such studies. All papers and applications for admission should be in the hands of the Principal before September first.

Students who have completed with credit the studies of the Preparatory School are awarded certificates which will admit them to the College without examination.

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<sup>1</sup>By action of the Board of Trustees at the June meeting the work of the Junior Preparatory year was dropped.

## SCHEME OF COURSES OF STUDY

All studies are five hours a week

### JUNIOR-MIDDLE YEAR

CLASSICAL	LITERARY	SCIENTIFIC
Greek a	English b	Biology a
Latin b	History b	Latin b
Mathematics b	Latin b	Mathematics b
and Drawing a	Mathematics b	and Drawing a
One of	and Drawing a	One of
English b		English b
History b		History b

### SENIOR-MIDDLE YEAR

English c	Latin c	Chemistry a
Greek b	Mathematics c	English c or b
Latin c	and Drawing b	Mathematics c
Mathematics c	Any two of	and Drawing b
and Drawing b	English c	One of
	German a <sup>1</sup>	German a <sup>1</sup>
	History c	Latin c

### SENIOR YEAR

Greek c	History d	History d
History d	Latin d	Physics a
Latin d	Physics a	Any two of
Physics a	or	English d
or	Chemistry a	German b <sup>1</sup>
Chemistry a	One of	History b or c
	English d	Mathematics d
	German b <sup>1</sup>	Latin d
	History c	

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<sup>1</sup>Two years of German required if elected.



## DEPARTMENTS OF INSTRUCTION

### BIBLICAL LITERATURE

- a. Bible. Required in all courses.

### BIOLOGY

- a. Biology. Required in the Scientific course; Junior-Middle year, both semesters. 8:25 T-S.

### CHEMISTRY

- a. Elementary Chemistry. Class room, three hours a week; laboratory one period a week. Required in the Scientific course, Senior-Middle year; optional in the Literary and Classical courses; Senior year, both semesters. 10:15 W,F,S; Laboratory 2:25 T,Th.

### DRAWING

- a. Free-hand and perspective drawing. Accompanies Mathematics b. Required in all courses; Junior-Middle year, both semesters. 9:20 Th.

- b. Geometrical drawing. Continuation of Drawing a. Accompanies Mathematics c. Required in all courses; Senior-Middle year, both semesters. 8:25 S.

### ENGLISH

- b. English Prose Masterpieces. Required in the Literary course, optional in other courses; Junior-Middle year, both semesters. 2:25 T-S.

- c. Representative Story Poems. Required in the Classical and Scientific courses, optional in the Literary

course; Senior-Middle year, both semesters. 1:30 T-S.

d. Typical Essays and Orations. Optional in the Literary and Scientific courses; Senior year, both semesters. 7:30 T-S.

### GERMAN

a. Elementary German. Optional in the Scientific and Literary courses; Senior-Middle year, both semesters. 9:20 T-S.

b. Continuation of German a. Optional in the Scientific and Literary courses; Senior year, both semesters. 8:25 T-S.

### GREEK

a. First Greek Book. Required in the Classical course; Junior-Middle year, both semesters. 8:25 T-S.

b. Xenophon. The Anabasis. Required in the Classical course; Senior-Middle year, both semesters. 2:25 T-S.

c. Homer. The Iliad. Required in the Classical course; Senior year, both semesters. 9:20 T-S.

### HISTORY

b. Medieval and Modern History. Required in the Literary course, Junior-Middle year; optional in the Classical and Scientific courses; Senior year, both semesters. 7:30 T-S.

c. English History. Optional in the Literary course, Senior and Senior-Middle years, and in the Scientific course, Senior year, both semesters.

d. United States History and Civil Government. Required in all courses; Senior year, both semesters. 12:35 T-S.

## LATIN

b. Caesar. The Gallic War. Required in all courses; Junior-Middle year, both semesters. 1:30 T-S.

c. Vergil. The Aeneid. Required in the Classical and Literary courses; optional in the Scientific course; Senior-Middle year, both semesters. 12:35 T-S.

d. Cicero. Required in the Classical and Literary courses; optional in the Scientific course; Senior year, both semesters. 1:30 T-S.

## MATHEMATICS

b. Algebra. Required in all courses; Junior-Middle year, both semesters. 10:15 T,W,F,S.

c. Plane Geometry. Required in all courses; Senior-Middle year, both semesters. 8:25 T-F.

d. Solid Geometry and Plane Trigonometry. Optional in the Scientific course; Senior year, both semesters. 9:20 T-S.

## PHYSICS

a. Elementary Physics. Required in Scientific course; optional in Classical and Literary courses; Senior year, both semesters. 10:15 T,W,S, Laboratory 2:25 W,F.



## School of Music

### REQUIREMENTS FOR ADMISSION<sup>1</sup>

The work is divided into two general departments, the Preparatory and the College. The Preparatory department is open to all persons above seven years of age with or without previous knowledge of music. It is intended to prepare for the College department, and also to meet the wants of those who, not having the time or the inclination to enter upon an extended course, yet desire the best possible instruction as long as they may devote themselves to music. The College department is open to those who have taken the Preparatory course or its equivalent, and is designed to take up the more advanced work of the artist and teacher.

### REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Music is conferred on those students who complete satisfactorily the course laid out under "The Scheme of Courses of Study" of the College, page 22. Those students who complete satisfactorily any of the courses outlined in the following pages will receive a certificate or diploma from the School of Music.

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<sup>1</sup>No credit is given toward a degree unless the work in applied music is preceded or accompanied by credit in theoretical music.

## DEPARTMENTS OF INSTRUCTION

While it is not practicable to give, in full, courses to be followed by all students, there will be found under each department suggestive tests to mark the completion of the Preparatory course and of each year of the College course.

### PIANO

MRS. BLAKESLEE    MISS WEST    MR. BLAKESLEE    MR. BUTLER  
MISS FAY    MISS WINN

#### PREPARATORY COURSE

##### SUGGESTIVE TESTS

Mozart. Sonata in G.

Haydn. Sonata in E minor or pieces of like difficulty; performance of any major or minor scale and an extended cadence in any key; the course in rudiments under the head of harmony:

#### COLLEGE COURSE

##### SUGGESTIVE TESTS

##### FIRST YEAR

Mozart. Fantasia in D minor.

Beethoven. Theme and Variations in G.

Bach. Two-part Invention or Prelude.

Widor. Serenade for Piano and Strings.

Music 1 and 2. Harmony and Counterpoint.



## SECOND YEAR

Bach. Small Fugue or Suite movement.

Haydn. Violin and Piano Sonata in C (No. 1).

Mendelssohn. Songs Without Words.

Clementi. Sonata in D.

Sitt. Trio, Op. 63.

Sight reading.

Music 3 and 4. Advanced Harmony and Strict Counterpoint.

## THIRD YEAR

Bach. Prelude and Fugue.

Haydn. Variations in F minor.

Mozart. Violin and Piano Sonata.

Chopin. Prelude.

Beethoven. Op. 10 No. 3, or Op. 13.

Gade. Trio for Piano and Strings.

Mozart. Concerto.

Transposition at sight.

Music 5 and 6. Free Counterpoint and Composition.

Music 9 and 10. History of Music.

## FOURTH YEAR

Bach. Italian Concerto or Fugue.

Beethoven. C minor Trio; Op. 27 No. 1 or Op. 31 No. 2 or No. 3.

Beethoven. Piano and Violin Sonata in A.

Chopin. Op. 10 Nos. 5, 7 or 8; Op. 23 or Op. 29.

Saint Saens. Concerto in G minor.

Reading and transposition at sight.

Music 7 and 8. Advanced Composition.

Music 11 and 12. Advanced History of Music.

A public recital.

## ORGAN

MR. BUTLER

## COLLEGE COURSE

## SUGGESTIVE TESTS

## FIRST YEAR

Bach. E minor. Prelude and Fugue.  
Widor. Fifth Symphony; Andante from memory.  
Music 1 and 2. Harmony and Counterpoint.

## SECOND YEAR

Bach. Lesser G minor Fugue.  
Rink. Flute Concerto.  
Wolstenholme. Sonata a la Handel.  
Sight accompaniments.  
Music 3 and 4. Advanced Harmony and Strict  
Counterpoint.

## THIRD YEAR

Handel. Sixth or D minor Concerto.  
Rheinberger. Sonata No. 6 or No. 12.  
Guilmant. Sonata No. 1.  
Mendelssohn. Sonata No. 5 (in part).  
Music 5 and 6. Free Counterpoint and Composition.  
Music 9 and 10. History of Music.

## FOURTH YEAR

Bach. Prelude and Fugue in G (2d vol.).  
Mendelssohn. One Sonata from memory.  
Handel. Part of F major or G minor Concertos.  
a. Reading of motet at sight. b. Transposition  
of a song. c. Composition of simple song-form on  
given theme.  
Music 7 and 8. Advanced Composition.

Music 11 and 12. Advanced History of Music.

Public recital with one original composition.

### VOICE

MR. BACON   MR. BLAKESLEE   MISS SOUTHWICK   MISS HUGHES

#### PREPARATORY COURSE

##### SUGGESTIVE TESTS

Sieber. Studies Op. 92, 93, 94 or 95.

Abt. "Not a Sparrow Falleth."

"Over the Stars There Is Rest."

Schumann. "Sunshine."

Nevin. "Little Boy Blue."

Ability to carry a part in simple four-voice music; understanding of the different kinds of time; Preparatory course in piano-playing and harmony.

#### COLLEGE COURSE

##### SUGGESTIVE TESTS

##### FIRST YEAR

Concone. Forty Studies, or Fifty Studies.

Franz, Schubert, Schumann. Easiest Songs.

Nevin. "At Twilight."

Music 1 and 2. Harmony and Counterpoint.

##### SECOND YEAR

Concone. Studies completed.

Marchesi. Italian Studies.

Lamperti. Agility Studies.

Franz, Schubert, Schumann. More advanced songs.

Beginning of easier Recitatives and Arias from opera and oratorio.

Music 3 and 4. Advanced Harmony and Strict Counterpoint.

## THIRD YEAR

Franz, Schubert, Schumann. Greater Songs.

Brahms, Grieg, Haydn, Beethoven.

More difficult selections from standard operas and oratorios.

Ability to sing any ordinary music at sight.

Music 5 and 6. Free Counterpoint and Composition.

Music 9 and 10. History of Music.

## FOURTH YEAR

Great songs of the various schools, German, French, English, etc.

Representative Recitative and Aria from at least three of the great operas and oratorios.

Music 7 and 8. Advanced Composition.

Music 11 and 12. Advanced History of Music.

Public recital.

## VIOLIN AND VIOLONCELLO

MR. STAPLES

## PREPARATORY COURSE

## SUGGESTIVE TESTS

Kross. Album of Studies preparatory to Kreutzer.

Mozart. Sonatas.

De Beriot. Op. 100.

Mastery of all major scales in first position; study of the other positions.

Preparatory course in Harmony.

## COLLEGE COURSE

## SUGGESTIVE TESTS

## FIRST YEAR

De Beriot. Op. 30.

Beethoven. Selected Sonatas.

Moszkowsky. Op. 12.  
Mozart. Concerto No. 1 or No. 2.  
Vieuxtemps. Op. 22.  
Wieniawsky. Op. 9.  
Music 1 and 2. Harmony and Counterpoint.

## SECOND YEAR

De Beriot. Op. 55.  
Beethoven. Selected Sonatas.  
Leonard. Op. 2.  
Viotti. Concerto No. 22 or No. 28.  
Mozart. Concerto No. 5 or No. 6.  
Music 3 and 4. Advanced Harmony and Strict  
Counterpoint.

## THIRD YEAR

De Beriot. Op. 32.  
Beethoven. Selected Sonatas.  
David. High School, selections.  
Sarasate. Op. 22.  
Spohr. Op. 2.  
Bach. Concerto No. 1 or No. 2.  
Music 5 and 6. Free Counterpoint and Composition.  
Music 9 and 10. History of Music.

## FOURTH YEAR

Brahms-Joachim. Hungarian Dances.  
Bruch. Op. 42.  
Kreutzer. Concerto No. 13 or No. 14.  
Spohr. Op. 47.  
Vieuxtemps. Op. 27.  
David. Op. 35.  
Music 7 and 8. Advanced Composition.  
Music 11 and 12. Advanced History of Music.  
Public recital.

## HARMONY AND COUNTERPOINT

MR. BUTLER

## PREPARATORY COURSE

Principles of pitch representation.

Elements of rhythm.

Full theory of intervals.

The scale, major and minor characteristics.

Chord spelling.

Elementary analysis.

No student is admitted to the beginners' classes in Harmony until he is familiar with all the major and minor keys.

After the student has mastered the rudiments of harmony he is transferred to the advanced classes in sight-singing.

## COLLEGE COURSE

Music 1 and 2. Harmony and Counterpoint.

General laws of part-writing.

Harmonization of melodies with figured bass.

Diatonic triads, major and minor, with inversions.

Two-part counterpoint in all species.

Music 3 and 4. Advanced Harmony and Strict Counterpoint.

Harmonization of melodies continued.

Harmony completed.

Strict Counterpoint completed.

Music 5 and 6. Free Counterpoint and Composition.  
Harmonization of melodies continued.

Free Counterpoint; the canon.

Song forms; rondo forms.

Theme and variations, and simple structure.

Music 7 and 8. Advanced Composition.

The Sonatina form.

The Sonata form.

The Fugue forms.

Irregular forms.

Theme and variations.

## HISTORY OF MUSIC

MISS WEST

Music 9 and 10. History of Music. A general course in the history of music and musicians.

Music 11 and 12. Advanced History of Music. A detailed study of the history of the branch of music in which the student is doing his major work.

## REGULATIONS

No pupil of the department is allowed to teach or to play or sing in public without the permission of the director.

Students who are registered in any department of the institution are not expected to study with outside teachers, except with the approval of the director.



## TUITION RATES

The rates per semester of eighteen weeks are as follows:

Class lessons in harmony or theory-----	\$ 8.75
Private half-hour lessons:	
In piano, voice or organ; with heads of departments:	
Two lessons per week-----	60.00
One lesson per week-----	32.00
In piano, voice or organ; with instructors:	
Two lessons per week-----	45.00
One lesson per week-----	24.00
In piano, voice or organ; with pupil assistants:	
Two lessons per week-----	25.00
One lesson per week-----	15.00
In violin; with head of department:	
Two lessons per week-----	50.00
One lesson per week-----	28.00
Diploma fee, College or Preparatory-----	5.00
Piano practice, \$4.50 per hour per semester for first hour; \$3.75 for second hour; \$3.00 for third hour.	

The attention of those who take work in the College in addition to the work in the School of Music is called to "Reductions," page 81

Pupils are expected to pay one-half semester in advance. Pupils will not be received for less than a college semester, except for special reasons. Lessons missed by the teachers will be made up. No deduction is made for lessons missed by pupils, except in cases of protracted illness, when the loss will be shared equally with the pupil. No lessons missed by the pupil are made up. Lessons are dropped on college and legal holidays. Pupils are not permitted to change the length of their lesson hour during the semester. Less time than one hour per week with the teacher is considered unsatisfactory for good work.

# School of Art and Design

## GENERAL STATEMENT

The School of Art and Design recognizes the needs of three classes of students—those who desire a full course in art requiring their whole attention, those who would make art a part of their regular college work and those who wish only to select special courses.

For those who contemplate art as a profession, the school offers a regular course designed in accordance with modern methods to furnish both thorough technical skill and general culture. The diploma of the School of Art and Design is awarded upon the completion of this course.

For those who wish to include an orderly study of art as a part of their regular college work, the school offers a group of selected courses, designated Art 1 to 8, intended to be the equivalent of one college study for four years. This group of courses constitutes a part of the regular work leading to the degree of Bachelor of Arts and receives thirty-two units of credit. In addition to the academic degree of Bachelor of Arts conferred by the College, a certificate of the School of Art and Design is given to those who satisfactorily complete this course in art.

Special art courses offering work in every branch of the subject are provided to meet special needs, but lead to no diploma.

Students in the College may receive credit for courses in art to the extent of thirty-two units except that credit will not be given for less than sixteen units. Four lessons a week for one semester with required readings, lectures and collateral work, constitute four units of credit. Students who take art as a part of the college requirement are urged to elect Art 1 to 8 inclusive.

## COURSES OF STUDY

### THE ART COURSE

The following course is planned especially for those who desire to make art a profession. Those who complete this course are granted the diploma of the School of Art and Design.

#### FIRST YEAR

Charcoal drawing in light and shade from geometric solids and vases with applied perspective, progressing through more difficult casts to the antique.

Leadpencil drawing from foliage and flowers from nature, with training in observation of plant growth, for use in design and in flower painting from nature.

Drawing from still life for exercise in composition and the study of color values.

Brush drawing in sepia or charcoal from foliage, casts and still life; practice for the handling of water color.

Memory drawing, time sketching, applied perspective.

#### SECOND YEAR

Advanced drawing from the antique, in charcoal and wash.

Design, applied and pure, including the abstract spot and conventionalization of plant forms for the decoration of fabrics, textiles, wall papers, book covers, etc. Lectures on theory and practice of design.

Oil painting in still life from casts, flowers and fruits.  
Portrait Work—Drawing the head in charcoal.

#### THIRD YEAR

Painting from life of the head and full figure in oil colors.

Advanced painting from still life.

Advanced work in design and historic ornament.

Landscape painting from nature.

Special attention placed on selecting the motifs and studying values.

#### FOURTH YEAR

Life and portrait painting.

Advanced landscape work.

Composition, the subject announced weekly.

Monthly lectures on the critical study of pictures.

#### SCHEME OF COURSES RECOMMENDED FOR CREDIT TOWARD THE LIBERAL ARTS DEGREE<sup>1</sup>

To be accepted as part of the requirements for the bachelor's degree, at least four of the courses must be taken and each must be supplemented by the required lectures and readings on the history and theory of art.

1 and 2. Drawing from object and cast; geometrical and perspective drawing. Freshman year, four hours a week, both semesters.

3. Drawing from cast and still life; perspective of shadows and reflections. Sophomore year, four hours a week, first semester.

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<sup>1</sup>See College Scheme of Courses of Study and Departments of Instruction.

4. Advanced perspective; advanced model drawing; composition. Sophomore year, four hours a week, second semester.

5. Anatomy; head from life in charcoal; full length figure from cast. Junior year, four hours a week, first semester.

6. Drawing from life; still life in oil or water color. Junior year, four hours a week, second semester.

7. Full length figure from life in charcoal. Senior year, four hours a week, first semester.

8. Head from life in oil; color composition. Senior year, four hours a week, second semester.

#### SPECIAL COURSES

Sketching. Work from the living model. Pupils pose in their turns or furnish a substitute. Open to all students of the College and to others on the payment of a fee of one dollar a semester. Weekly.

Landscape painting. Work from nature in oil, water-color and pastel. Prerequisites: Completion of the work in antique, perspective, still life, color, harmony and composition.

Normal Course. Work designed for those who intend to teach in the grades or the high schools.

In addition to the above courses, individual needs are met by courses, in Geometrical Drawing, Theory and Practice in Perspective, Mechanical Drawing, Anatomical Drawing, Still Life, Composition and Design.

### TUITION RATES

Mechanical Drawing, four hours a week, per semester-----	\$30.00
Mechanical Drawing, two hours a week, per semester-----	15.00
Landscape Painting from Nature, two hours a week, with one criticism a week, per semester-----	20.00
Portrait Painting, six hours a week, with one criticism a week, per semester-----	30.00
Two class lessons in any other branch, with perspective lectures, five hours a week, per semester-----	30.00
One class lesson, two hours a week, per semester-----	15.00
Sketch class, per semester-----	1.00

The attention of those who take work in the College in addition to the work in the School of Art and Design is called to "Reductions," p. 81.



## General Information

### HONORS

In addition to honors at graduation, honors are given for excellence in the work of one subject or department.

Honorable mention is given to those whose average grade is 93 or over in eight units of work in any subject of Freshman or Sophomore year.

Departmental honors are awarded to those whose average grade is 93 or over in eight units of Junior-Senior work in any one subject or department.

Senior departmental honors are awarded to those whose average grade is 93 or over in sixteen units of Junior-Senior work in any one department.

After the year 1908-1909 the list of students who receive special honors will be published in the college catalogue and Senior departmental honors will be indicated upon the Commencement program.

For further information regarding Honors see p. 18.

## ADMINISTRATION

### REGISTRATION

Students are required to register on the appointed days and are admitted to those courses only for which they have registered. Registration later than the time appointed is allowed only on the payment of a special fee of one dollar, and each change in courses after the first week of any semester is subject to a similar charge. Courses entered upon may be dropped or additional courses registered for only by consent of the Committee on Classification. No petition for changes is granted during the last month of a semester.

### REPORTS

A record of the scholarship and deportment of each pupil is kept, and reports of the students in the Preparatory School are sent to parents or guardians at the close of each semester.

The grades of college students are sent to parents upon request and in all cases where conditions or failures have been incurred.

The grade of scholarship is determined by the daily work of the class-room supplemented by frequent test reviews and by final examinations.

The aim is to encourage faithfulness and regularity in daily work rather than spasmodic effort to meet some single test.

## REGULATIONS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all the college appointments. Any who prove disloyal or fall below grade in scholarship may be dismissed without specific charges.

The use of tobacco is disapproved and discouraged at all times. Any student addicted to its use may be dropped.

A copy of the general rules and regulations may be obtained on application to the Dean.

## GENERAL EXERCISES

Devotional exercises conducted by members of the Faculty in turn, or by some invited guest, are held in the chapel every week day morning, except Monday, and all students are expected to be present.

An hour is reserved each Thursday morning for a general gathering of Faculty and students in which various phases of college life and interest are presented. Opportunity is given at this time for addresses by invited guests or members of the Faculty, for meetings of the Associated Students and, in general, for the presentation and discussion of any matter of common interest.

Attendance upon the Sunday morning service in the Claremont church is required except in cases where permission is given to attend services elsewhere. Such permission will be granted on the request of parents.

## ROOMS

Lists and descriptions of rooms available for students are kept at the College Office. Furnished rooms outside the college buildings are rented at prices ranging from twenty to forty-five dollars for the semester. Students are permitted to room only at places approved by the Faculty.

To avoid misunderstanding between students and householders it is advised that agreements regarding rooms be put in written form. Unless written agreement to the contrary is made, it will be assumed that rooms are rented for one semester.

Change of rooms is made only by permission of the Faculty.

## SUMNER HALL

Women not living in their own homes, unless excused by the Faculty, are expected to room in Sumner Hall, which accommodates seventy young women. There are both single rooms and suites of two rooms, all of which are light, airy and attractively furnished. Some of the larger single rooms may have two occupants if desired. Each room is provided with the necessary furnishings, including rug for the floor. The only articles to be supplied by the students are towels, linen and covers for a single bed.

The third floor rooms are among the most attractive and desirable in the house. In addition to the usual furnishings these rooms have cosy window seats and more commodious closets than the rooms on the lower floors.

Careful attention is given to the health of the young women residing in the Hall. Illness is rare, yet for such cases as occur there is provided, opening directly from the matron's room, a pleasant, sunny rest room, where patients are given the best of care.

Rooms in Sumner Hall are rented for the year at prices ranging from forty to seventy dollars, according to the location and desirability of the room and the number of occupants. These prices do not include the use of rooms for the Christmas or Easter vacation. Room rent is payable each semester in advance. A deposit of five dollars is necessary to secure a room in the Hall and should accompany the application. This amount will be credited on the rent of the room.

Information concerning the dimensions of rooms, number of windows and similar matters may be obtained at the business office.

Students who reside in Sumner Hall are expected to board at the Commons.

#### SMILEY HALL

Smiley Hall is a dormitory for the use of college men exclusively. There are both single rooms and suites of three rooms accommodating two students. The dormitory has all modern conveniences and is completely furnished. The only articles to be provided by the students are towels, and linen and covers for a single bed. All rooms are equally desirable, the basis of choice in most cases being one's preference for the eastern or western outlook.

Rooms in Smiley Hall are rented for the college year, each occupant paying sixty dollars. In case of

withdrawal because of sickness an equitable adjustment of rent will be made.

These terms do not include the use of the dormitory during the Christmas and Easter vacations when the Hall will be closed unless a number desire to remain, in which case the cost of keeping the building open will be an additional charge. Damage to rooms will be charged to the occupants.

A deposit of five dollars is necessary to secure a room and should accompany the application. This amount will be credited on the year's rent.

The college dormitories will be opened on the Saturday before the beginning of the college year and closed the Saturday after commencement.

### BOARD

Board may be had at the College Commons at prices ranging from fifteen to twenty dollars a month. It is exceedingly desirable that students board at the Commons, because of its unifying influence upon the college life; everything possible will be done to make this department of the institution increasingly attractive and satisfactory.

Students wishing to board at other approved places may do so by permission of the Faculty, but such permission will rarely be given to those living in college buildings.

### SUMMARY OF EXPENSES

The necessary expense for the college year exclusive of fees for special courses and expenses which are purely personal varies from \$275 to \$400. Bills are due each

semester in advance and must be paid or arranged for on the days appointed. If parents desire bills to be sent home written request should be made before the beginning of a semester; otherwise all bills will be sent to students and payment expected from them.

No student will be retained in the institution or given honorable dismissal whose bills are not paid or satisfactorily arranged for.

## REQUIRED OF ALL

Tuition, per semester, all courses.....\$45.00

## ADDITIONAL PER SEMESTER IN CERTAIN COURSES

Chemistry, preparatory.....	\$ 5.00
Chemistry, college, per course involving one laboratory period.....	6.00
Chemistry, college, per course involving more than one laboratory period.....	10.00
Physics, per course involving one laboratory period.....	3.00
Physics, per course involving more than one laboratory period.....	5.00
Biology, college, per course involving one laboratory period.....	4.50
Biology, college, per course involving more than one laboratory period.....	6.00
Physics and Chemistry, deposit for breakage.....	5.00

## MUSIC AND ART

An extra tuition is required for all courses in Music and Art. These rates are given under the heads of School of Music and School of Art and Design.

## REDUCTIONS

Tuition per semester for students of the Preparatory School whose parents reside in the city of Claremont is reduced to \$32.50.

For literary work amounting to four units or less in the College or Preparatory School, one-half of the full tuition is charged.

A reduction in tuition is made for students who, in addition to literary work in the College, elect music or art involving at least two lessons a week in the same department of applied music



together with theory or history of music, or four lessons a week in art. If the literary work amounts to more than four units, a reduction of ten per cent of the combined literary and fine arts tuitions is given. If the literary work amounts only to four units or less, one-third of the literary tuition is charged and full tuition in music or art. In these cases no special fee is charged for theory or history of music.

## STUDENT AID FUNDS

The income of certain funds is used toward paying the tuition fees of students who are in pecuniary need and, by authorization of the Trustees, is distributed annually through a committee of the Faculty.

Aid is given only to students who maintain a high standard of honor, who are economical in their habits, who are regular in their attendance upon college exercises and whose scholarship meets the following conditions: full standing as a candidate for the bachelor's degree, except that students entering with conditions may have until the beginning of the second semester for their removal; a passing grade in each subject and an average of at least third grade in all subjects during the Freshman year and an average of at least second grade for each subsequent year.

Applicants for aid who have not yet entered college should forward to the Dean of the College, E. C. Norton, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. All applications for aid must be renewed annually.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions and

is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship funds may be called upon to assist the College in ways that do not interfere with their studies.

### SELF SUPPORT

A committee of the Faculty endeavors to find employment for students needing to earn a part of their expenses. Many are thus helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general housework, gardening, and the like. The most desirable positions are in general secured by upper classmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. The record during this semester will be a large factor in deciding what opportunities for self help will be open to them. Applications for aid in securing employment should be addressed to Professor F. H. White, the chairman of the Student Aid and Labor Committee.

### CORRESPONDENCE

Claremont, California, is the postoffice address for all mail intended for those connected with Pomona College.

General correspondence should be directed to the President of Pomona College.

Special correspondence regarding the admission or standing of college students should be directed to the Dean; regarding the admission or standing of preparatory students to the Principal of the Preparatory School.

### BEQUESTS AND LEGACIES

Pomona College is a corporation formed and existing under the laws of the State of California. In making bequests or legacies the testator should use the whole corporation name, which is "The Pomona College."











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